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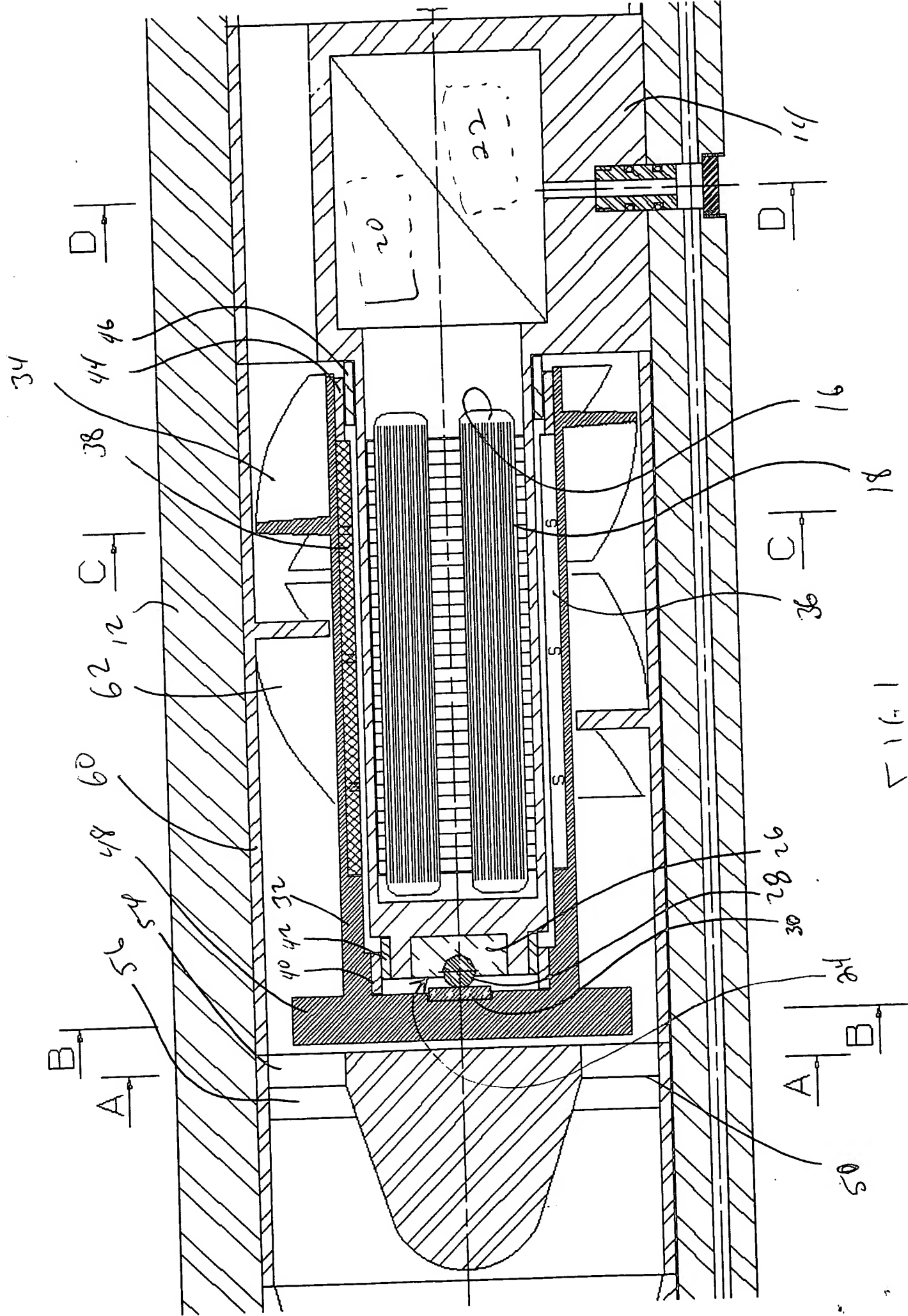
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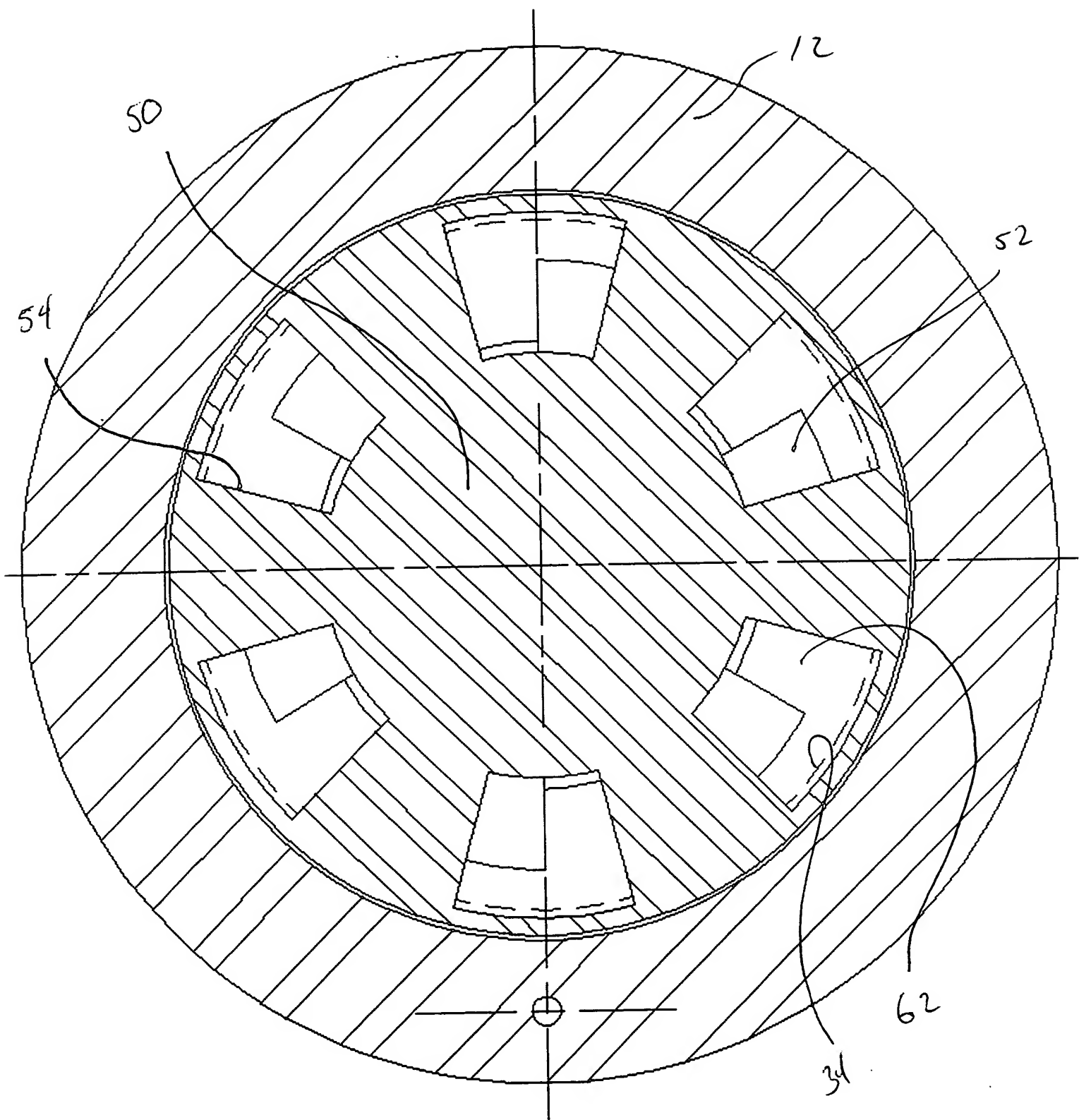


FIG 1 A

A - A

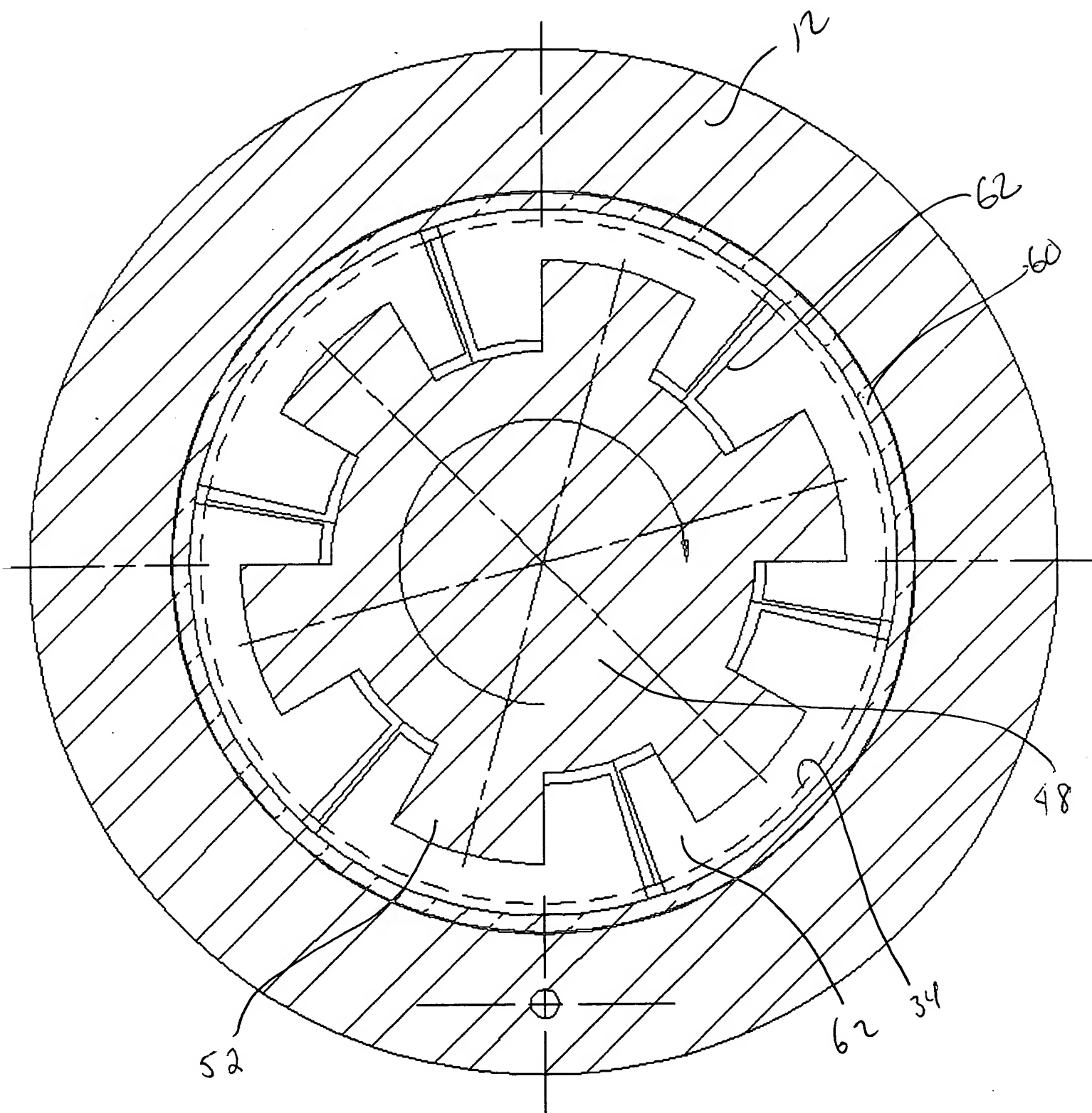


FIG. 13B - B

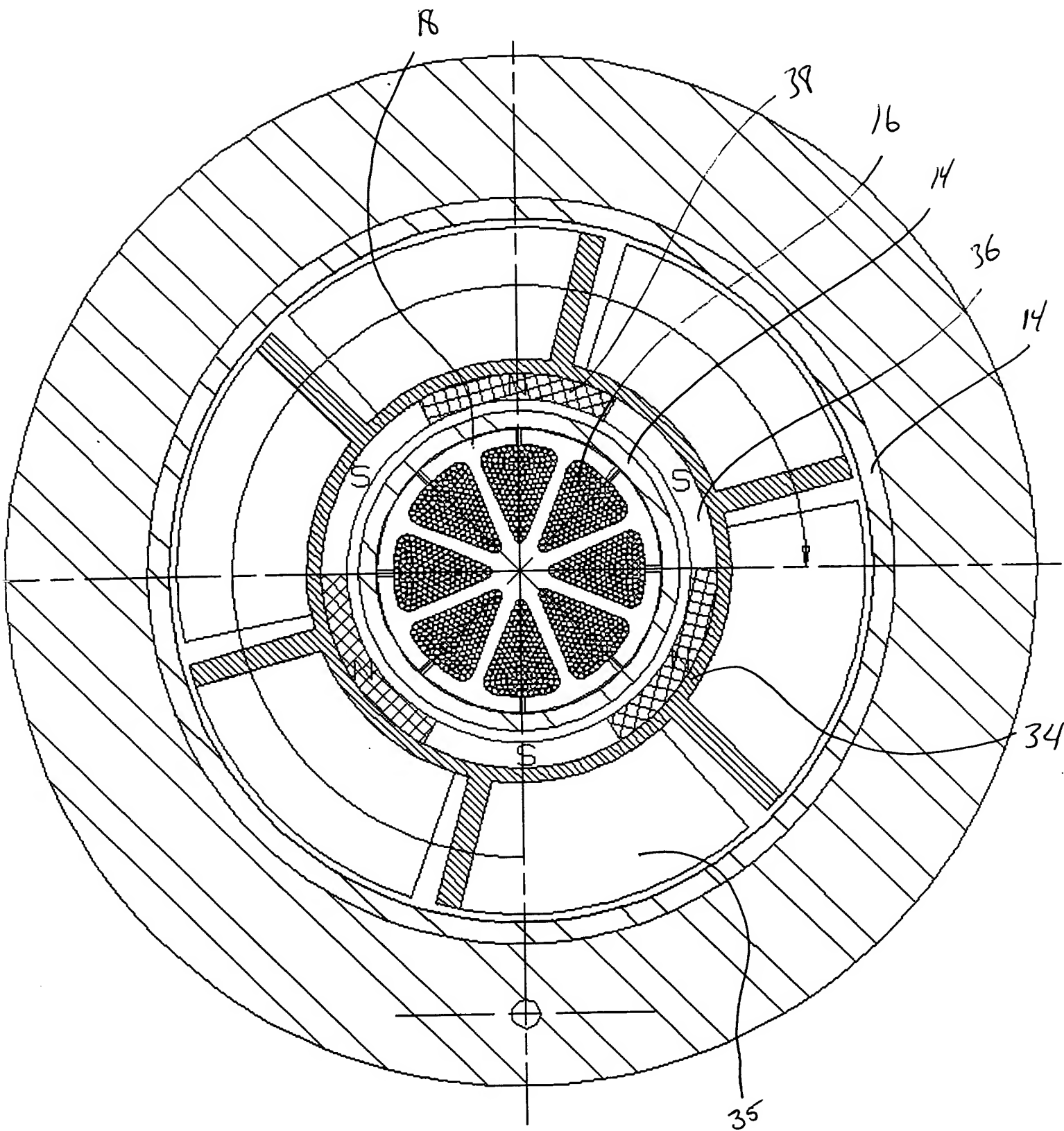


FIG 1C
C - C

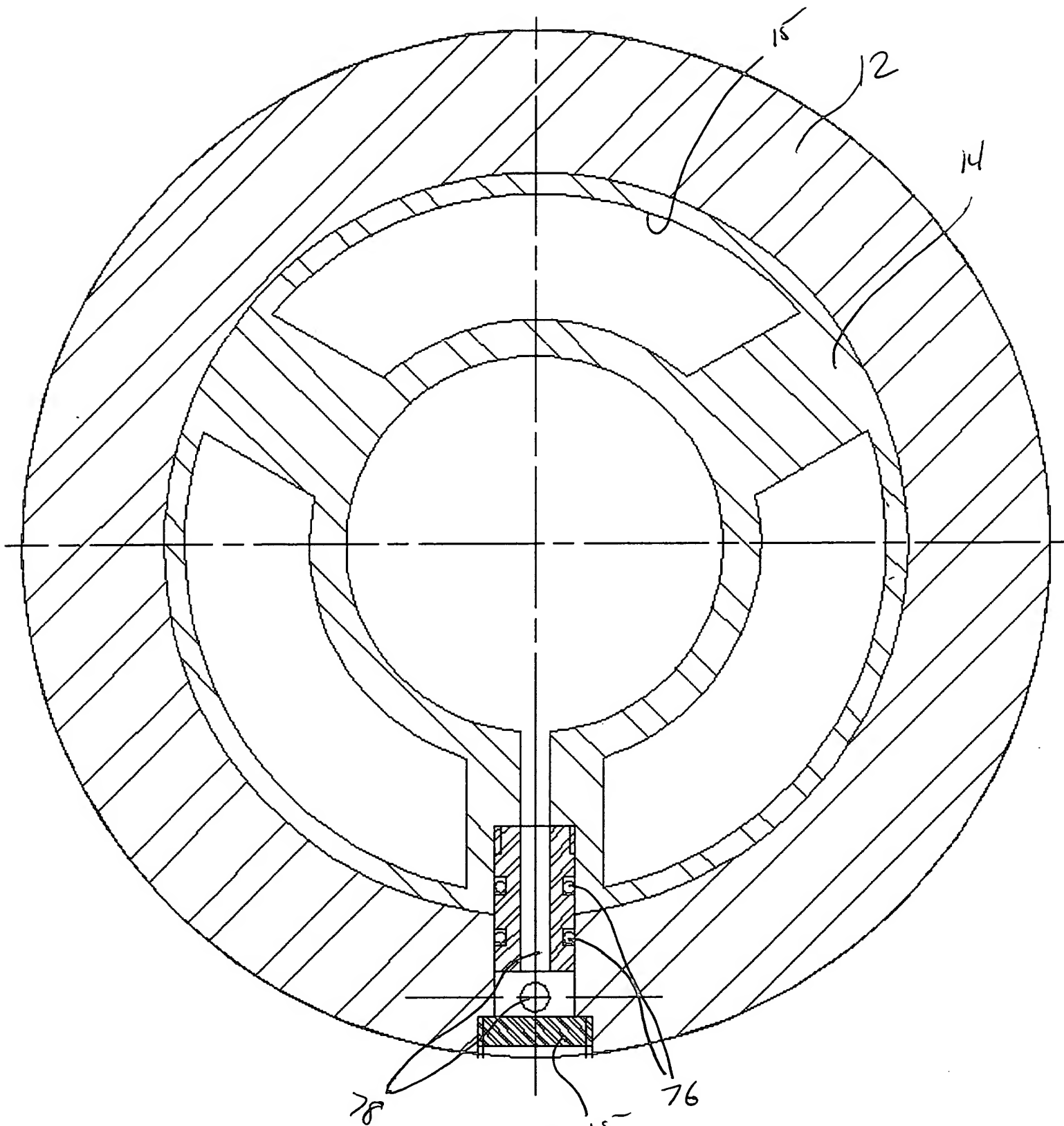


FIG 1D

D — D

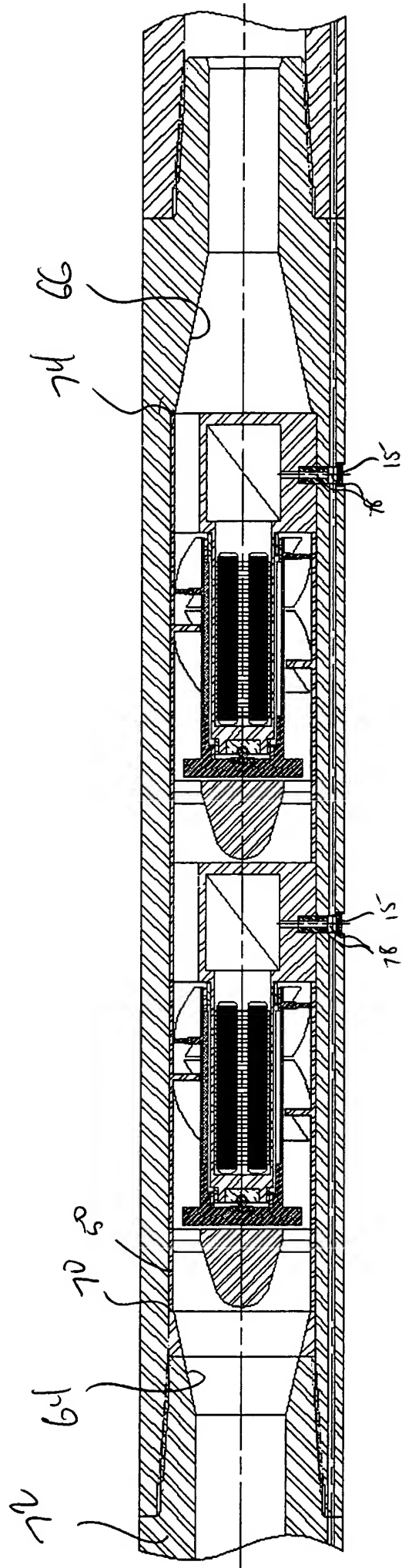


FIG. 2

Figure 5

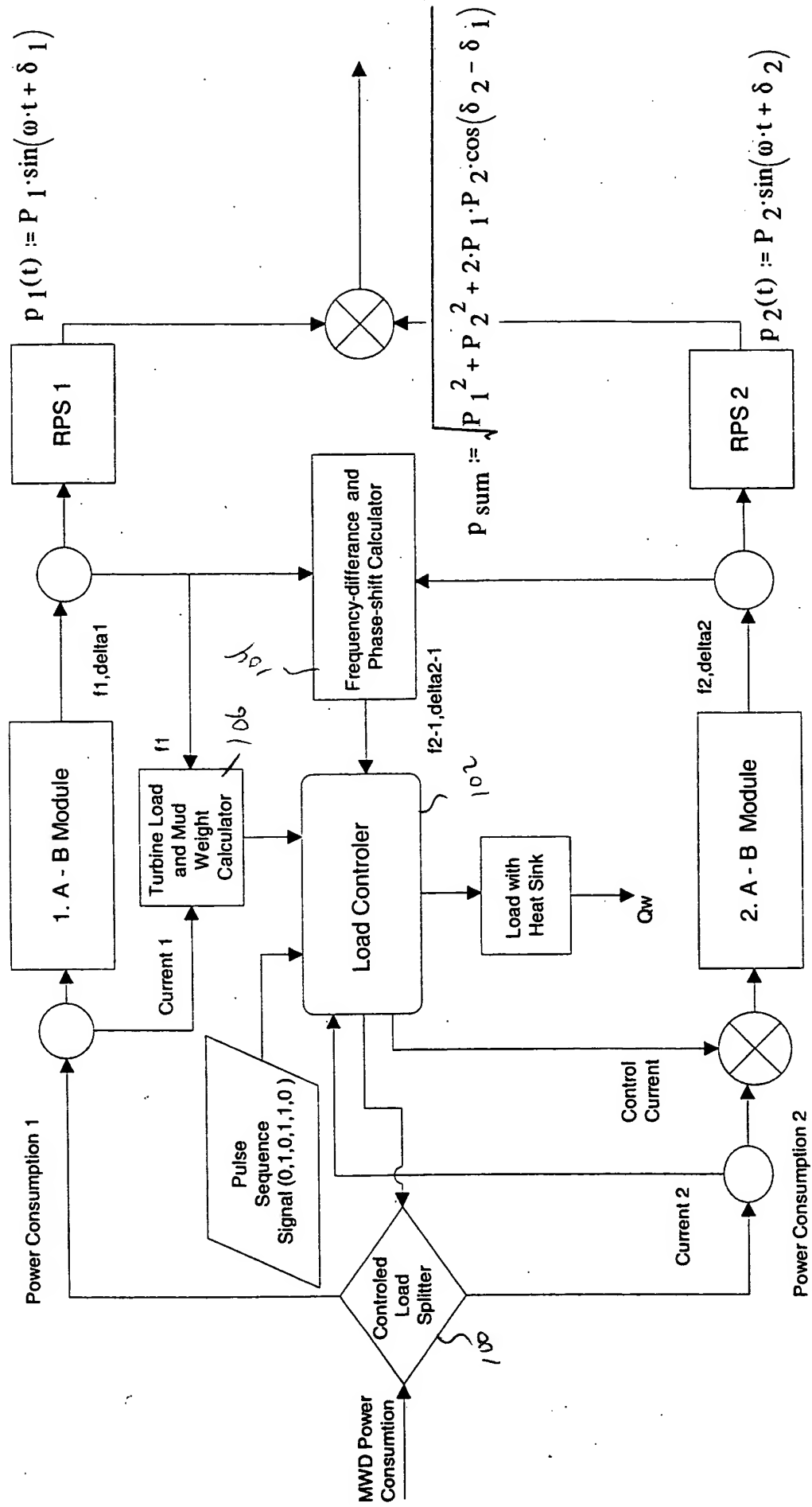


FIG. 3

Figure 4

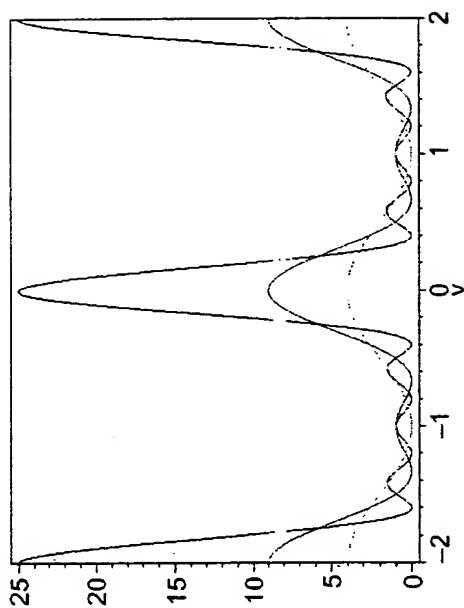
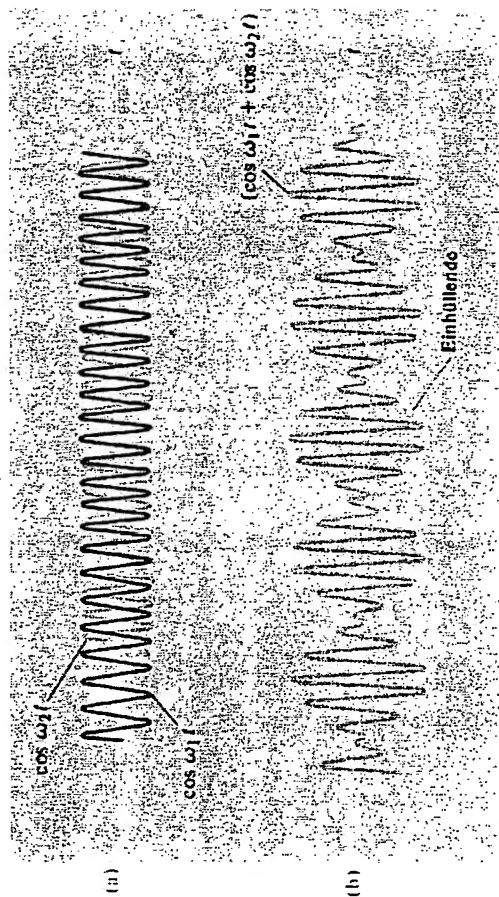


Figure 5



Appendix for Invention Disclosure "Integrated Power and Communication System for down hole applications IPCS"

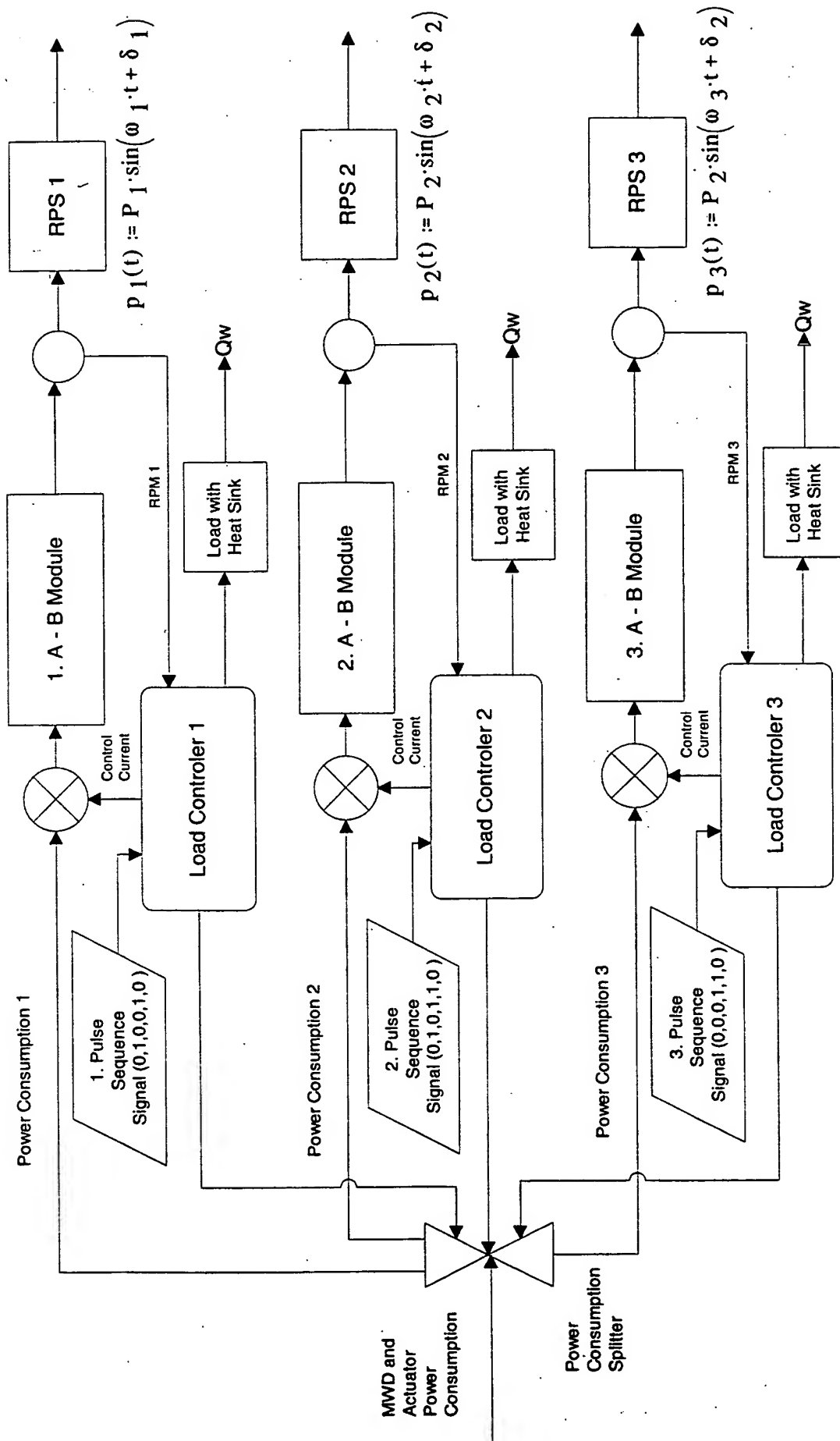
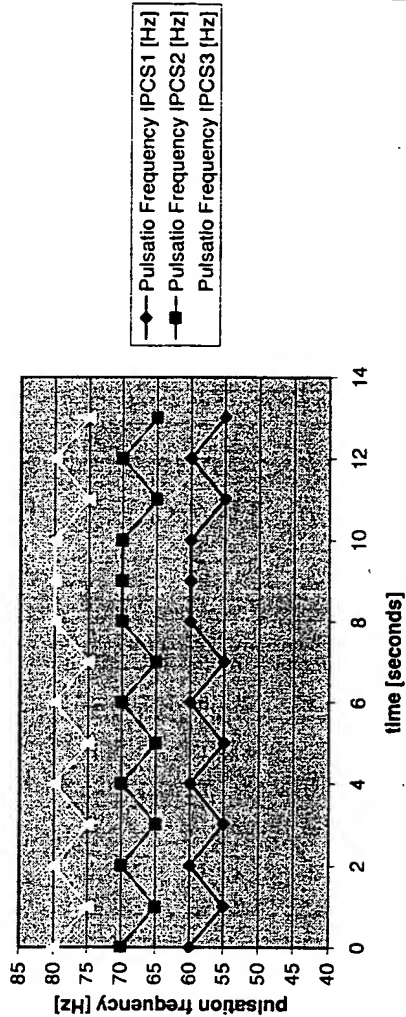


FIG. 6

S-Mode with redundant signal transmission



S-Mode with X-Channel Transmission

